

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Eisenzopf, Reinhard Examiner #: 5978 Date: 2/5
Art. Unit: 2600 Phone Number 305-4711 Serial Number: 101054245
Mail Box and Bldg/Room Location: PK28A37 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

US 6,041,109

STAFF USE ONLY

Searcher: KEJ
Searcher Phone #: _____
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Date Searcher Picked Up: 2/5
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NA Sequence (#) _____	STN _____
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Structure (#) _____	Questel/Orbit _____
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Patent Family _____	WWW/Internet _____
Other _____	Other (specify) _____

Query/Command : prt max legalall

/1 PLUSPAT - ©QUESTEL-ORBIT - image

N - **US6041109** A 20000321 [US6041109]
I - (A) Telecommunications system having separate switch intelligence and switch fabric
A - (A) MCI COMMUNICATIONS CORP (US)
N - (A) RAMBO KEN (US); WALLER CAROL (US); CARDY DOUGLAS ROSS (US)
P - US58071295 19951229 [1995US-0580712]
R - US58071295 19951229 [1995US-0580712]
C - (A) H04M-003/00 H04M-007/00
C - H04Q-003/00D3
H04Q-003/545M1
CL - ORIGINAL (O) : 379201010; CROSS-REFERENCE (X) : 379219000 379221010 379243000
T - Corresponding document
T - US4201891; US4821034; US4872157; US4893302; US5272749; US5327486; US5329520; US5418844;
US5530852; US5583920; US5608446; US5610976; US5619557; US5619562; US5661782; US5712908;
WO9529564
Elixmann et al., "Open Switching--Extending Control Architectures to Facilitate Applications," International Switching Symposium, vol. 2, Apr. 23-28, 1995, Berlin, Germany, pp. 239-243.
Kabay et al., "The Service Node--An Advanced IN Services Element," BT Technology Journal, vol. 13, No. Apr. 1995, Ipswich, Great Britain, pp. 64-72.
Mayer et al., "Service Net-2000: An Intelligent Network Evolution," AT&T Technical Journal, vol. 70, No. 3/4, 1991, Short Hills, USA, pp. 99-110.
Maruyama, "A Concurrent Object-Oriented Switching Program in Chill," IEEE Communications Magazine, vol. 29, No. 1, Jan. 1991, New York, USA, pp. 60-68.
Shabana et al., "Intelligent Switch Architecture," Proceedings of the National Communications Forum, vol. 4 No. 2, Sep. 30, 1988, Chicago, USA, pp. 1312-1320.
TG - (A) United States patent
B - The present invention is a telecommunications system having separate switch fabric and switch intelligence. The system comprises a switch fabric, a switch intelligence, and a feature processor. The switch intelligence logically separated from the switch fabric and comprises a switch fabric proxy, a facility service, a connection manager service, and a call segment instance service. The switch fabric proxy is coupled to the switch fabric via a vendor-specific first Application Programming Interface (API). The switch fabric proxy supports a second API, which is common across all vendors, representing functions supported by the switch fabric. A facility instance, which is instantiated by a facility service using a facility model, represents the bearer and signaling facilities of a party to a call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. The connection manager service represents the connectors for a party to call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. A call segment instance, which is instantiated by a call segment instance service using a call model, represents the call logic and call data for a party to a call, and interacts with the connection manager service via a third API and with the facility instance via a fourth API. The feature processor interacts with the call segment instance via a fifth API to provide the telecommunications feature.
P - 2000-13

/1 LGST - ©LEGSTAT

P - US 580712/95 19951229 [1995US-0580712]
T - US-P
CT - 19951229 US/AE-A
APPLICATION DATA (PATENT)
US 580712/95 19951229 [1995US-0580712]

20000321 US/A
PATENT

20020604 US/RF
REISSUE APPLICATION FILED
20020124

P - 2002-24

/1 CRXX - ©CLAIMS/RRX

N - 6,041,109 A 20000321 [US6041109]
A - MCI Communications Corp
CT - 20020124 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20020604
REISSUE REQUEST NUMBER: 10/054245
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2748

Reissue Patent Number:

/1 PAST - ©Thomson Derwent

N - 200223-001842
N - 6041109 A [US6041109]
G - 2002-06-04
CT - REISSUE APPLICATION FILED

<=1> GET 1st DRAWING SHEET OF 5

March 21, 2000

Telecommunications system having separate switch
intelligence and switch fabric

REISSUE: January 24, 2002 - Reissue Application filed Ex. Gp.: 2748; Re. S.N.
10/054,245 (O.G. June 4, 2002)

APPL-NO: 580712 (08)

FILED-DATE: December 29, 1995

GRANTED-DATE: March 21, 2000

CORE TERMS: switch, fabric, segment, interface, processing, intelligence,
manager, bearer, network, connector ...

ENGLISH-ABST:

The present invention is a telecommunications system having separate switch fabric and switch intelligence. The system comprises a switch fabric, a switch intelligence, and a feature processor. The switch intelligence is logically separated from the switch fabric and comprises a switch fabric proxy, a facility service, a connection manager service, and a call segment instance service. The switch fabric proxy is coupled to the switch fabric via a vendor-specific first Application Programming Interface (API). The switch fabric proxy supports a second API, which is common across all vendors, representing functions supported by the switch fabric. A facility instance, which is instantiated by a facility service using a facility model, represents the bearer and signaling facilities of a party to a call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. The connection manager service represents the connectors for a party to a call, and interacts with the switch fabric proxy via the second API to communicate with the switch fabric. A call

fabric proxy via the second API to communicate with the switch fabric. A call segment instance, which is instantiated by a call segment instance service using a call model, represents the call logic and call data for a party to a call, and interacts with the connection manager service via a third API and with the facility instance via a fourth API. The feature processor interacts with the call segment instance via a fifth API to provide the telecommunications feature.

LEXIS-NEXIS
Library: PATENT
File: ALL

6,041,109 OR 6041109

LEXIS-NEXIS
Library: PATENT
File: CASES

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6,041,109 OR 6041109

LEXIS-NEXIS
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6,041,109 OR 6041109

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S2 1 PN=US 6041109
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2/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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Basic Patent (No,Kind,Date): WO 9724885 A1 19970710 <No. of Patents: 002>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date
US 6041109	A	20000321	US 580712	A	19951229
WO 9724885	A1	19970710	WO 96US20142	A	19961230 (BASIC)

Priority Data (No,Kind,Date):

US 580712 A 19951229

PATENT FAMILY:

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 6041109 A 20000321

TELECOMMUNICATIONS SYSTEM HAVING SEPARATE SWITCH INTELLIGENCE AND
SWITCH FABRIC (English)

Patent Assignee: MCI COMMUNICATIONS CORP (US)

Author (Inventor): CARDY DOUGLAS ROSS (US); RAMBO KEN (US); WALLER
CAROL (US)

Priority (No,Kind,Date): US 580712 A 19951229

Applic (No,Kind,Date): US 580712 A 19951229

National Class: * 379201000; 379219000; 379220000; 379243000

IPC: * H04M-007/00; H04M-003/00

Derwent WPI Acc No: * G 97-364043

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 6041109	P	19951229	US AE	APPLICATION DATA (PATENT)
				(APPL. DATA (PATENT))
			US 580712 A	19951229
US 6041109	P	20000321	US A	PATENT
US 6041109	P	20020604	US RF	REISSUE APPLICATION FILED
				(REISSUE APPL. FILED)
				20020124

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9724885 A1 19970710

A TELECOMMUNICATIONS SYSTEM HAVING SEPARATE SWITCH INTELLIGENCE AND
SWITCH FABRIC (English)

Patent Assignee: MCI COMMUNICATIONS CORP (US)

Author (Inventor): CARDY DOUGLAS ROSS; RAMBO KEN; WALLER CAROL

Priority (No,Kind,Date): US 580712 A 19951229

Applic (No,Kind,Date): WO 96US20142 A 19961230

Designated States: (National) CA; JP; MX (Regional) AT; BE; CH; DE;
DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE

Filing Details: WO 130000 With international search report; Before
expiration of time limit for amending the claims and to be
republished in the event of the receipt of the amendments

IPC: * H04Q-003/00; H04Q-003/545

Derwent WPI Acc No: * G 97-364043; G 97-364043

Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9724885	P	19951229	WO AA	PRIORITY (PATENT)
		US 580712	A	19951229
WO 9724885	P	19961230	WO AE	APPLICATION DATA (APPL. DATA)
		WO 96US20142	A	19961230
WO 9724885	P	19970710	WO AK	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED STATES CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			CA JP MX	
WO 9724885	P	19970710	WO AL	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT (DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPL. WITH SEARCH REPORT)
			AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE	
WO 9724885	P	19970710	WO A1	PUBLICATION OF THE INTERNATIONAL APPLICATION WITH THE INTERNATIONAL SEARCH REPORT (PUB. OF THE INTERNATIONAL APPL. WITH THE INTERNATIONAL SEARCH REPORT)
WO 9724885	P	19970904	WO DFPE	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE
WO 9724885	P	19971001	WO 121	EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))
WO 9724885	P	19980904	WO NENP	NON-ENTRY INTO THE NATIONAL PHASE IN:
			JP 97524390	
WO 9724885	P	19990421	WO 122	EP: PCT APP. NOT ENT. EUROP. PHASE (EP: PCT ANM. NICHT IN EUROP. PHASE EING.)